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(71) Applicants (*for all designated States except US*): **THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL [GB/GB]; 123 Old Brompton Road, London, Greater London SW7 3RP (GB). THE ROYAL MARSDEN NHS FOUNDATION TRUST [GB/GB]; Downs Road, Surrey SM2 5PT (GB).**

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LEACH, Martin,**

Osmund [GB/GB]; 24 Blenheim Gardens, Wallington, Surrey SM6 9PP (GB). REINSBERG, Stefan, Alexander [DE/GB]; 63 Eastdean Avenue, Epsom, Surrey KT18 7SW (GB). MOORE, Elizabeth, May [GB/GB]; 6C Blean Grove, Penge SE20 8QU (GB).

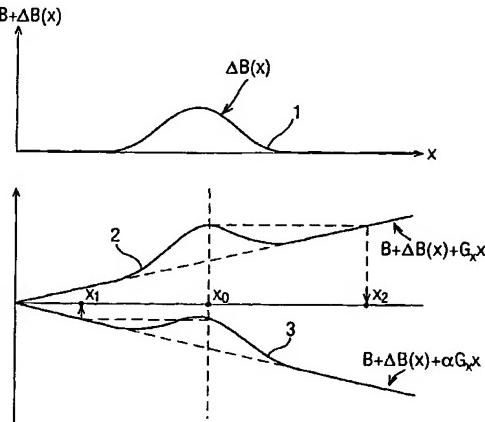
(74) Agents: **HACKNEY, Nigel et al.; Mewburn Ellis LLP, York House, 23 Kingsway, London, Greater London WC2B 6HP (GB).**

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(54) Title: CORRECTION OF GEOMETRIC DISTORTIONS IN MAGNETIC RESONANCE IMAGES



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(57) Abstract: A method and apparatus are disclosed for concurrently acquiring two sets of Magnetic Resonance Imaging (MRI) image data during the same image data acquisition interval in which the magnetic field associated with acquisition of the first data set is caused to differ from the magnetic field associated with acquisition of the second data set. The method includes repeatedly changing the magnetic field in a pre-determined manner during the continuous acquisition of image data comprising the two sets. The relationship between the differing magnetic fields, most preferably the relationship between differing gradient fields, is then employed in conjunction with the first and second data sets to correct image distortions arising in images constructed according to the data in either set alone.



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